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BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH34

SHEET 1 OF 3

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Hidden Valley Bridges; Pier 2;
Project Number: 2134070C

Date Commenced: 18/6/05
Date Completed: 18/6/05
Recorded By: AO
Log Checked By: *PAW*

Drill Model/Mounting: EAZE-CAT TRACKED RIG
Borehole Diameter: 80 mm

Hole Angle: 90°
Bearing: ---
Surface RL: 16.1 m AHD
Co-ords: E 48061.6 N 89255.4 PMG

Borehole Information						Field Material Description							
1	2	3	4	5	6	7	8	9	10	11	12	13	
METHOD	SUPPORT	WATER	RL(m) AHD	DEPTH(m)	FIELD TEST	SAMPLE	GRAPHIC LOG	USC SYMBOL	SOIL/ROCK MATERIAL FIELD DESCRIPTION	MOISTURE	RELATIVE DENSITY / CONSISTENCY	HAND PENETROMETER (kPa)	STRUCTURE AND ADDITIONAL OBSERVATIONS
TC	C		16						Sandy CLAY: medium plasticity, brown, fine to coarse grained sand, lots of organic matter and plant roots. Sandy CLAY: medium plasticity, grey-brown, mostly stained orange-brown, fine to coarse grained sand, minor black charcoal fragments and plant roots.	M	VS FB VL ST MD VST D R VD	HAND PENETROMETER (kPa)	TOPSOIL
			0.30				CI	RESIDUAL SOIL					
			1		SPT 3,4,6 N=10	SPT							
			15										
			14										
			2.80		SPT 3,3,5 N=8	SPT			GREYWACKE: fine to coarse grained, pale grey, some orange brown staining, extremely weathered with the consistency of medium plasticity sandy clay, extremely low strength, fine to coarse grained sand, trace of plant roots along defects and highly weathered greywacke fragments/ corestones up to 10mm in size.	W			WEATHERED ROCK Rock structure just visible in places, including 70° dipping planar defects.
			13										
			12		SPT 3,5,8 N=13	SPT							
			11										
			5.80		SPT 20,26,15 N=41	SPT			... highly weathered low strength.				
			10						ARGILLITE: very fine grained, greenish grey, with occasional bands of dark grey, some orange brown staining, extremely to highly weathered, low to very low strength.				Visible thin foliations at 70°.
			9		SPT 20,30 V110mm	SPT							Visible thin foliations at 70°.
			8										
			8.77		SPT 18,30 V70mm	SPT			GREYWACKE: fine to coarse grained, grey-brown, some orange-brown staining, moderately weathered, low strength. REFER TO CORED BOREHOLE LOG				70° bedding, planar.
			7										

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.



CORED BOREHOLE ENGINEERING LOG

BOREHOLE NO.

BH34

SHEET 2 OF 3

Client: QUEENSLAND MAIN ROADS
Project: TUGUN BYPASS GEOTECHNICAL INVESTIGATION
Borehole Location: Hidden Valley Bridges; Pier 2;
Project Number: 2134070C

Date Commenced: 18/6/05
Date Completed: 18/6/05
Recorded By: AO
Log Checked By: *AO*

Drill Model/Mounting: EAZE-CAT TRACKED RIG Hole Angle: 90° Surface RL: 16.1 m AHD
Borehole Diameter: 80 mm Bearing: --- Co-ords: E 48061.6 N 89255.4 PMG

Borehole Information						Field Material Description						
1	2	3	4	5	6	7	8	9	10	11	12	
METHOD	SUPPORT	WATER	CORE RECOVERY	RQD	RL(m) AHD	DEPTH(m)	GRAPHIC LOG	SOIL/ROCK MATERIAL FIELD DESCRIPTION	WEATHERING	INFERRED STRENGTH I _{n(50)} MPa	AVERAGE DEFECT SPACING mm	STRUCTURE AND ADDITIONAL OBSERVATIONS
									EL 0.03 VL 0.1 J 0.3 N 1 H 1-3 VH 10			
							</					

This borehole log should be read in conjunction with Parsons Brinckerhoff's accompanying standard notes.

Project: Tugun Bypass Geotechnical Investigation
Borehole: BH34
Start Depth: 8.87m
Finish Depth: 12.15m

